

RAW SEQUENCE LISTING

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Application Serial Number: 1015811413
Source: EFUWP
Date Processed by STIC: 6/14/06

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IFWP

RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/581,413

DATE: 06/14/2006
TIME: 10:28:31

Input Set : A:\5.1295 Sequence Listing.txt
Output Set: N:\CRF4\06142006\J581413.raw

3 <110> APPLICANT: KYOWA HAKKO KOGYO CO., LTD.
 5 <120> TITLE OF INVENTION: Pharmaceutical composition comprising recombinant antibody
 against CCR4
 7 <130> FILE REFERENCE: 00005.001295
 C--> 9 <140> CURRENT APPLICATION NUMBER: US/10/581,413
 C--> 9 <141> CURRENT FILING DATE: 2006-06-02
 9 <150> PRIOR APPLICATION NUMBER: JP04/018430
 10 <151> PRIOR FILING DATE: 2004-12-03
 12 <150> PRIOR APPLICATION NUMBER: JP2003-406590
 13 <151> PRIOR FILING DATE: 2003-12-04
 15 <150> PRIOR APPLICATION NUMBER: JP2004-155141
 16 <151> PRIOR FILING DATE: 2004-05-25
 18 <160> NUMBER OF SEQ ID NOS: 18
 20 <170> SOFTWARE: PatentIn Ver. 2.1
 22 <210> SEQ ID NO: 1
 23 <211> LENGTH: 360
 24 <212> TYPE: PRT
 25 <213> ORGANISM: Homo sapiens
 27 <400> SEQUENCE: 1
 28 Met Asn Pro Thr Asp Ile Ala Asp Thr Thr Leu Asp Glu Ser Ile Tyr
 29 1 5 10 15
 31 Ser Asn Tyr Tyr Leu Tyr Glu Ser Ile Pro Lys Pro Cys Thr Lys Glu
 32 20 25 30
 33 Gly Ile Lys Ala Phe Gly Glu Leu Phe Leu Pro Pro Leu Tyr Ser Leu
 34 35 40 45
 36 Val Phe Val Phe Gly Leu Leu Gly Asn Ser Val Val Val Leu Val Leu
 37 50 55 60
 39 Phe Lys Tyr Lys Arg Leu Arg Ser Met Thr Asp Val Tyr Leu Leu Asn
 40 65 70 75 80
 42 Leu Ala Ile Ser Asp Leu Leu Phe Val Phe Ser Leu Pro Phe Trp Gly
 43 85 90 95
 45 Tyr Tyr Ala Ala Asp Gln Trp Val Phe Gly Leu Gly Leu Cys Lys Met
 46 100 105 110
 48 Ile Ser Trp Met Tyr Leu Val Gly Phe Tyr Ser Gly Ile Phe Phe Val
 49 115 120 125
 51 Met Leu Met Ser Ile Asp Arg Tyr Leu Ala Ile Val His Ala Val Phe
 52 130 135 140
 54 Ser Leu Arg Ala Arg Thr Leu Thr Tyr Gly Val Ile Thr Ser Leu Ala
 55 145 150 155 160
 57 Thr Trp Ser Val Ala Val Phe Ala Ser Leu Pro Gly Phe Leu Phe Ser
 58 165 170 175
 60 Thr Cys Tyr Thr Glu Arg Asn His Thr Tyr Cys Lys Thr Lys Tyr Ser
 61 180 185 190
 63 Leu Asn Ser Thr Thr Trp Lys Val Leu Ser Ser Leu Glu Ile Asn Ile

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64	195	200	205
66	Leu Gly Leu Val Ile Pro Leu Gly Ile Met Leu Phe Cys Tyr Ser Met		
67	210	215	220
69	Ile Ile Arg Thr Leu Gln His Cys Lys Asn Glu Lys Lys Asn Lys Ala		
70	225	230	235
72	Val Lys Met Ile Phe Ala Val Val Val Leu Phe Leu Gly Phe Trp Thr		240
73	245	250	255
75	Pro Tyr Asn Ile Val Leu Phe Leu Glu Thr Leu Val Glu Leu Glu Val		
76	260	265	270
78	Leu Gln Asp Cys Thr Phe Glu Arg Tyr Leu Asp Tyr Ala Ile Gln Ala		
79	275	280	285
81	Thr Glu Thr Leu Ala Phe Val His Cys Cys Leu Asn Pro Ile Ile Tyr		
82	290	295	300
84	Phe Phe Leu Gly Glu Lys Phe Arg Lys Tyr Ile Leu Gln Leu Phe Lys		
85	305	310	315
87	320	325	330
88	335		
90	Ile Tyr Ser Ala Asp Thr Pro Ser Ser Ser Tyr Thr Gln Ser Thr Met		
91	340	345	350
93	Asp His Asp Leu His Asp Ala Leu		
94	355	360	
96	<210> SEQ ID NO: 2		
97	<211> LENGTH: 28		
98	<212> TYPE: PRT		
99	<213> ORGANISM: Homo sapiens		
101	<400> SEQUENCE: 2		
102	Asn Pro Thr Asp Ile Ala Asp Thr Thr Leu Asp Glu Ser Ile Tyr Ser		
103	1	5	10
			15
105	Asn Tyr Tyr Leu Tyr Glu Ser Ile Pro Lys Pro Cys		
106	20	25	
109	<210> SEQ ID NO: 3		
110	<211> LENGTH: 18		
111	<212> TYPE: PRT		
112	<213> ORGANISM: Homo sapiens		
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115	Asp Glu Ser Ile Tyr Ser Asn Tyr Tyr Leu Tyr Glu Ser Ile Pro Lys		
116	1	5	10
			15
118	Pro Cys		
121	<210> SEQ ID NO: 4		
122	<211> LENGTH: 15		
123	<212> TYPE: PRT		
124	<213> ORGANISM: Homo sapiens		
126	<400> SEQUENCE: 4		
127	Asp Glu Ser Ile Tyr Ser Asn Tyr Tyr Leu Tyr Glu Ser Ile Pro		
128	1	5	10
			15
131	<210> SEQ ID NO: 5		
132	<211> LENGTH: 5		
133	<212> TYPE: PRT		
134	<213> ORGANISM: Mus musculus		

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136 <400> SEQUENCE: 5
137 Asn Tyr Gly Met Ser
138 1 5
141 <210> SEQ ID NO: 6
142 <211> LENGTH: 17
143 <212> TYPE: PRT
144 <213> ORGANISM: Mus musculus
146 <400> SEQUENCE: 6
147 Thr Ile Ser Ser Ala Ser Thr Tyr Ser Tyr Tyr Pro Asp Ser Val Lys
148 1 5 10 15
150 Gly
153 <210> SEQ ID NO: 7
154 <211> LENGTH: 10
155 <212> TYPE: PRT
156 <213> ORGANISM: Mus musculus
158 <400> SEQUENCE: 7
159 His Ser Asp Gly Asn Phe Ala Phe Gly Tyr
160 1 5 10
163 <210> SEQ ID NO: 8
164 <211> LENGTH: 16
165 <212> TYPE: PRT
166 <213> ORGANISM: Mus musculus
168 <400> SEQUENCE: 8
169 Arg Ser Ser Arg Asn Ile Val His Ile Asn Gly Asp Thr Tyr Leu Glu
170 1 5 10 15
173 <210> SEQ ID NO: 9
174 <211> LENGTH: 7
175 <212> TYPE: PRT
176 <213> ORGANISM: Mus musculus
178 <400> SEQUENCE: 9
179 Lys Val Ser Asn Arg Phe Ser
180 1 5
183 <210> SEQ ID NO: 10
184 <211> LENGTH: 9
185 <212> TYPE: PRT
186 <213> ORGANISM: Mus musculus
188 <400> SEQUENCE: 10
189 Phe Gln Gly Ser Leu Leu Phe Trp Thr
190 1 5
193 <210> SEQ ID NO: 11
194 <211> LENGTH: 138
195 <212> TYPE: PRT
196 <213> ORGANISM: Mus musculus
198 <400> SEQUENCE: 11
199 Met Asn Leu Gly Leu Ser Leu Ile Phe Leu Ala Leu Ile Leu Lys Gly
200 1 5 10 15
202 Val Gln Cys Glu Val Gln Leu Val Glu Ser Gly Gly Asp Leu Met Lys
203 20 25 30
205 Pro Gly Gly Ser Leu Lys Ile Ser Cys Ala Ala Ser Gly Phe Ile Phe

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206 35 40 45
208 Ser Asn Tyr Gly Met Ser Trp Val Arg Gln Thr Pro Asp Met Arg Leu
209 50 55 60
211 Glu Trp Val Ala Thr Ile Ser Ser Ala Ser Thr Tyr Ser Tyr Tyr Pro
212 65 70 75 80
214 Asp Ser Val Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Glu Asn
215 85 90 95
217 Ser Leu Tyr Leu Gln Met Asn Ser Leu Arg Ser Glu Asp Thr Gly Ile
218 100 105 110
220 Tyr Tyr Cys Gly Arg His Ser Asp Gly Asn Phe Ala Phe Gly Tyr Trp
221 115 120 125
223 Gly Arg Gly Thr Leu Val Thr Val Ser Ala
224 130 135
227 <210> SEQ ID NO: 12
228 <211> LENGTH: 132
229 <212> TYPE: PRT
230 <213> ORGANISM: Mus musculus
232 <400> SEQUENCE: 12
233 Met Lys Leu Pro Val Arg Leu Leu Val Leu Met Phe Trp Ile Pro Ala
234 1 5 10 15
236 Ser Ser Ser Asp Val Leu Met Thr Gln Thr Pro Leu Ser Leu Pro Val
237 20 25 30
239 Ser Leu Gly Asp Gln Ala Ser Ile Ser Cys Arg Ser Ser Arg Asn Ile
240 35 40 45
242 Val His Ile Asn Gly Asp Thr Tyr Leu Glu Trp Tyr Leu Gln Arg Pro
243 50 55 60
245 Gly Gln Ser Pro Lys Leu Leu Ile Tyr Lys Val Ser Asn Arg Phe Ser
246 65 70 75 80
248 Gly Val Pro Asp Arg Phe Ser Gly Ser Gly Thr Asp Phe Thr
249 85 90 95
251 Leu Lys Ile Ser Arg Val Glu Ala Glu Asp Leu Gly Val Tyr Tyr Cys
252 100 105 110
254 Phe Gln Gly Ser Leu Leu Pro Trp Thr Phe Gly Gly Thr Arg Leu
255 115 120 125
257 Glu Ile Arg Arg
258 130
261 <210> SEQ ID NO: 13
262 <211> LENGTH: 119
263 <212> TYPE: PRT
264 <213> ORGANISM: Artificial Sequence
266 <220> FEATURE:
267 <223> OTHER INFORMATION: Synthetic peptide
269 <400> SEQUENCE: 13
270 Glu Val Gln Leu Val Glu Ser Gly Gly Asp Leu Val Gln Pro Gly Arg
271 1 5 10 15
273 Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Ile Phe Ser Asn Tyr
274 20 25 30
276 Gly Met Ser Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val
277 35 40 45

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279 Ala Thr Ile Ser Ser Ala Ser Thr Tyr Ser Tyr Tyr Pro Asp Ser Val
280 50 55 60
282 Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Leu Tyr
283 65 70 75 80
285 Leu Gln Met Asn Ser Leu Arg Val Glu Asp Thr Ala Leu Tyr Tyr Cys
286 85 90 95
288 Ala Arg His Ser Asp Gly Asn Phe Ala Phe Gly Tyr Trp Gly Gln Gly
289 100 105 110
291 Thr Leu Val Thr Val Ser Ser
292 115
295 <210> SEQ ID NO: 14
296 <211> LENGTH: 119
297 <212> TYPE: PRT
298 <213> ORGANISM: Artificial Sequence
300 <220> FEATURE:
301 <223> OTHER INFORMATION: Synthetic peptide
303 <400> SEQUENCE: 14
304 Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
305 1 5 10 15
307 Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Asn Tyr
308 20 25 30
310 Gly Met Ser Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val
311 35 40 45
313 Ser Thr Ile Ser Ser Ala Ser Thr Tyr Ser Tyr Tyr Pro Asp Ser Val
314 50 55 60
316 Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr
317 65 70 75 80
319 Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys
320 85 90 95
322 Ala Arg His Ser Asp Gly Asn Phe Ala Phe Gly Tyr Trp Gly Gln Gly
323 100 105 110
325 Thr Leu Val Thr Val Ser Ser
326 115
329 <210> SEQ ID NO: 15
330 <211> LENGTH: 112
331 <212> TYPE: PRT
332 <213> ORGANISM: Artificial Sequence
334 <220> FEATURE:
335 <223> OTHER INFORMATION: Synthetic peptide
337 <400> SEQUENCE: 15
338 Asp Ile Val Met Thr Gln Ser Pro Leu Ser Leu Pro Val Thr Pro Gly
339 1 5 10 15
341 Glu Pro Ala Ser Ile Ser Cys Arg Ser Ser Arg Asn Ile Val His Ile
342 20 25 30
344 Asn Gly Asp Thr Tyr Leu Glu Trp Tyr Leu Gln Lys Pro Gly Gln Ser
345 35 40 45
347 Pro Gln Leu Leu Ile Tyr Lys Val Ser Asn Arg Phe Ser Gly Val Pro
348 50 55 60
350 Asp Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Lys Ile

VERIFICATION SUMMARY

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L:9 M:270 C: Current Application Number differs, Replaced Current Application No
L:9 M:271 C: Current Filing Date differs, Replaced Current Filing Date